Your answers are saved automatically.

Remaining Time: **07 minutes, 53 seconds.**

Question Completion Status:

Question **7** of **15**

⚠ Moving to another question will save this response.

0.2 points Save Answer

In java, the name of a class is called _____.

- carbage
- variable
- identifier
- value

Question **7** of **15**

⚠ Moving to another question will save this response.

Question Completion Status:

Question **10** of **15**

⚠️ Moving to another question will save this response.

0.2 points Save Answer

What is the output of the following program?

```
public class Test{

    public static void main(String []args){
                int i = 0;
                for(i = 0; i < 10; i++){
                        break;
                }
                System.out.println(i);
    }
}
```

- 1
- 0
- 10
- 9

Question Completion Status:

Question **11** of **15**

⚠️ Moving to another question will save this response.

0.2 points Save Answer

What is the output of the following code snippet?

```
    int[] array = {5,6,7,8};
for(int i=0; i< array.length;i++)
    array[i]= array[i]* 2;

for( int e : array)
  System.out.print(" "+e);
```

- 10 12 14 16
- 5 6 7 8
- Compile error
- 10 12 14 16 5 6 7 8

Question **11** of **15**

5G ١:٣٠

Take Test: Quiz-OOP-T1-2021-2022

Remaining Time: **07 minutes, 42 seconds.**

Question Completion Status:

Question **9** of **15**

⚠ Moving to another question will save this response.

0.2 points Save Answer

Every Java program must have one _____ method.

- main
- standard
- conditional
- new

Question **9** of **15**

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Remaining Time: Less than half of the time remains.

07 minutes, 27 seconds.

Question Completion Status:

Question **12** of **15**

⚠ Moving to another question will save this response.

0.2 points Save Answer

_____ is a logical unit of the computer that performs calculations.

- a. Arithmetic logic unit
- b. RAM
- c. ROM
- d. Hard Disk

Question **12** of **15**

⚠ Moving to another question will save this response.

Take Test: Quiz-OOP-T1-2021-2022

This test can be saved and resumed at any point until time has expired. The timer will continue to run if you leave the test.

Your answers are saved automatically.

Remaining Time: Less than half of the time remains.

07 minutes, 19 seconds.

Question Completion Status:

Question **13** of **15**

⚠ Moving to another question will save this response.

0.2 points Save Answer

When you compile Hello.java file, the _____ produces _____ file.

- a. Compiler, Hello.exe
- b. Compiler, Hello.class
- c. Debugger, Hello.exe
- d. Interpreter, Hello.exe

5G ١:٣٠

Take Test: Quiz-OOP-T1-2021-2022

Remaining Time: **07 minutes, 47 seconds.**

Question Completion Status:

Question **8** of **15**

Moving to another question will save this response.

0.2 points Save Answer

The keyword used to create a new object in Java is _____.

- a. class
- b. java
- c. new
- d. create

Question **8** of **15**

Moving to another question will save this response.

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Remaining Time: Less than half of the time remains.

07 minutes, 13 seconds.

Question Completion Status:

Question **14** of **15**

⚠ Moving to another question will save this response.

0.2 points Save Answer

What is the output of the following statement?

```
int age = 26;
System.out.println((age >= 21) ? "Milk":"Juice");
```

- Juice
- Compile error
- Milk
- Run time error

Question **14** of **15**

Question Completion Status:

Question **6** of **15**

⚠ Moving to another question will save this response.

0.2 points Save Answer

What is the output of the following statement?

```
System.out.printf("Hello %s!%n", "World");
```

- Hello World!
- Hello !World
- Hello s!n World
- Hello %s!%n", "World

Question **6** of **15**

⚠ Moving to another question will save this response.

07 minutes, 08 seconds.

Question Completion Status:

Save and Submit

Question **15** of **15**

⚠ Click **Submit** to complete this assessment.

0.2 points Save Answer

Which of the following statement declare an array of type double with 10 elements.

- a. double[] a = new double[9];
- b. double a = new double [10];
- c. double a = new [] double;
- d. double a = new double{9};

Question **15** of **15**

⚠ Click **Submit** to complete this assessment.

Take Test: Quiz-OOP-T1-2021-2022

Question Completion Status:

Question 5

0.2 points Save Answer

What is the correct way to invoke methods on variables in Java that are strings?

- Methods can only be invoked on string constants, not on variables.
- For each method there is a special operator that must be used.
- There are no methods available in Java for string variables.
- Invoke them using the variable name and the dot (.) notation.

Remaining Time: 4 hours, 41 minutes, 45 seconds.

Question Completion Status:

Moving to another question will save this response.

Question 1

Let $f(n) = 3.f(n/2) + 9$, $f(4) = 8$, then the value of $f(16)$ is

- a. 97
- b. 108
- c. 95
- d. 88

Moving to another question will save this response.

25°C غائم

Timed Test	This test has a time limit of 15 minutes.This test will save and subm Warnings appear when **half the time, 5 minutes, 1 minute,** and 3
Multiple Attempts	Not allowed. This test can only be taken once.
Force Completion	This test can be saved and resumed at any point until time has expi Your answers are saved automatically.

Remaining Time: 06 minutes, 53 seconds.

Question Completion Status:

Moving to another question will save this response.

Question 8

What is the correct way to invoke methods on variables in Java that are strings?

- Methods can only be invoked on string constants, not on variables.
- For each method there is a special operator that must be used.
- There are no methods available in Java for string variables.
- Invoke them using the variable name and the dot (.) notation.

Moving to another question will save this response.

Remaining Time: 12 minutes, 28 seconds.

Question Completion Status:

Moving to another question will save this respon

Question 11

which of the following is a correct comment?

I. //this is a comment

II. /this is a comment

III. /* this is a comment */

IV. <this is a comment>

- I and III
- II and IV
- only IV
- II and III

Moving to another question will save this response.

Your answers are saved automatically.

Remaining Time: 13 minutes, 18 seconds.

Question Completion Status:

Moving to another question will save this response.

Question 9

What is the output of the following code?

```
class EnumExample1{

public enum Season { WINTER, SPRING, SUMMER, FALL }

public static void main(String[] args) {
   Season s;
   s = Season.WINTER ;
   s = Season.SPRING ;
   s = Season.SUMMER ;
   s = Season.FALL ;
   System.out.println(s);
}
}
```

- WINTER
- SPRING
- FALL
- WINTER, SPRING, SUMMER, FALL

Moving to another question will save this response.

Remaining Time: 14 minutes, 43 seconds.

Question Completion Status:

Moving to another question will save this response.

Question 3

What is the output of the following code snippet?

```
int [] myArray = new int [4];
for(int i=0; i< myArray.length; i++)
    System.out.print(" "+myArray[i]);
```

- out of bound error
- compile error
- 0 0 0 0
- null null null null

Moving to another question will save this response.

What is the output of the following code snippet?

```
int marks = 100;
 if( marks > 70 )
     System.out.println("Distinction");
 if( marks > 35 )
     System.out.println("Pass");
 if(marks > 50);
  else
      System.out.println("Fail");

  System.out.println("Better luck next time");
```

- Distinction

  Pass

  Better luck next time second number is maximum
- Pass

  Better luck next time second number is maximum
- Fail
- Distinction
  Pass

Moving to another question will save this response.

esc

Your answers are saved automatically.

Remaining Time: 08 minutes, 01 second.

Question Completion Status:

Moving to another question will save this response.

Question 11

To access the last element in the array marks of length 20, we write

- a. marks[20];
- b. marks[19];
- c. marks.length;
- d. marks[length];

Moving to another question will save this respon

b

27°C عائم

Remaining Time: 05 minutes, 44 seconds.

Question Completion Status:

Moving to another question will save this response.

Question 13

What is the output of the following statements?

```
int[] a = new int[9];
System.out.println(a.length());
```

- compile error
- 11
- 9
- 10

Moving to another question will save this response.

27°C غائم

Remaining Time: 05 minutes, 44 seconds.

Question Completion Status:

Moving to another question will save this response.

Question 13

What is the output of the following statements?

```
int[] a = new int[9];
System.out.println(a.length() );
```

- compile error
- 11
- 9
- 10

Moving to another question will save this response.

27°C غائم

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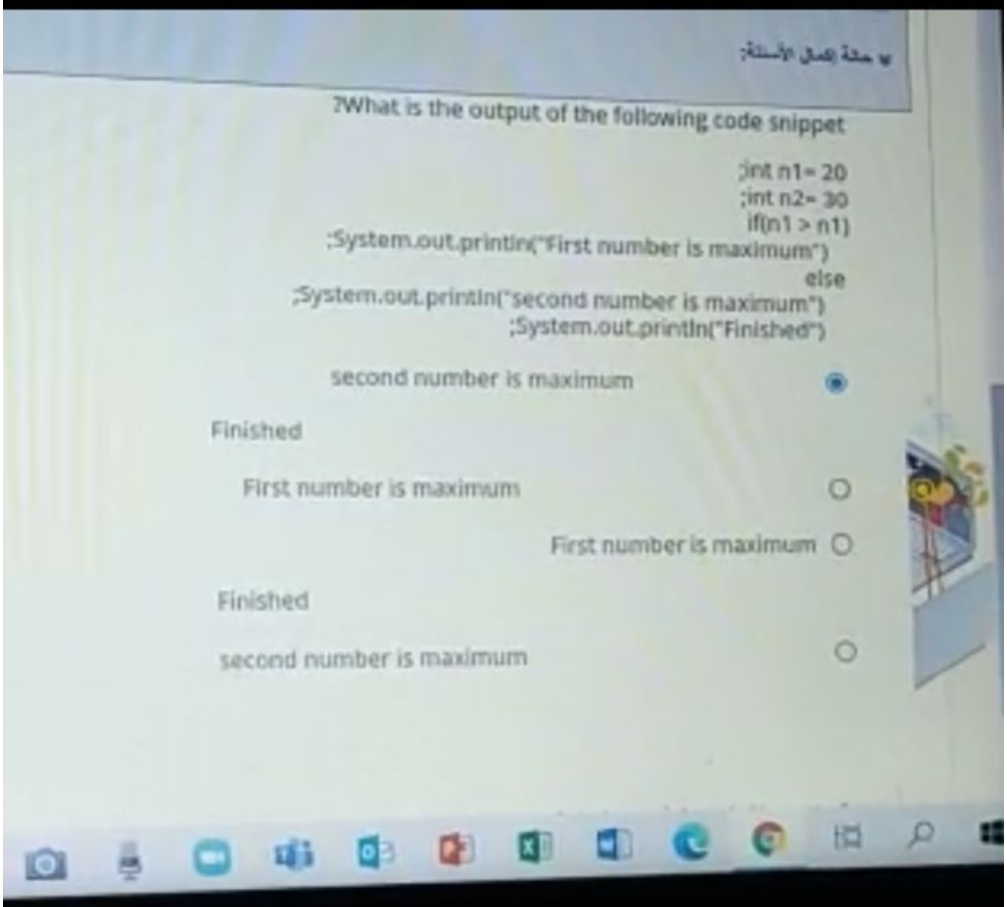

هادي الأسئلة اله جتني جبت كامل

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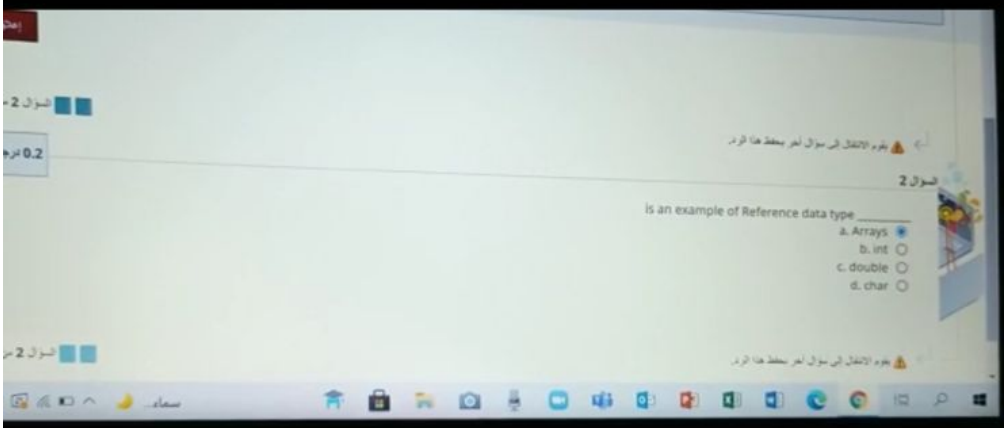

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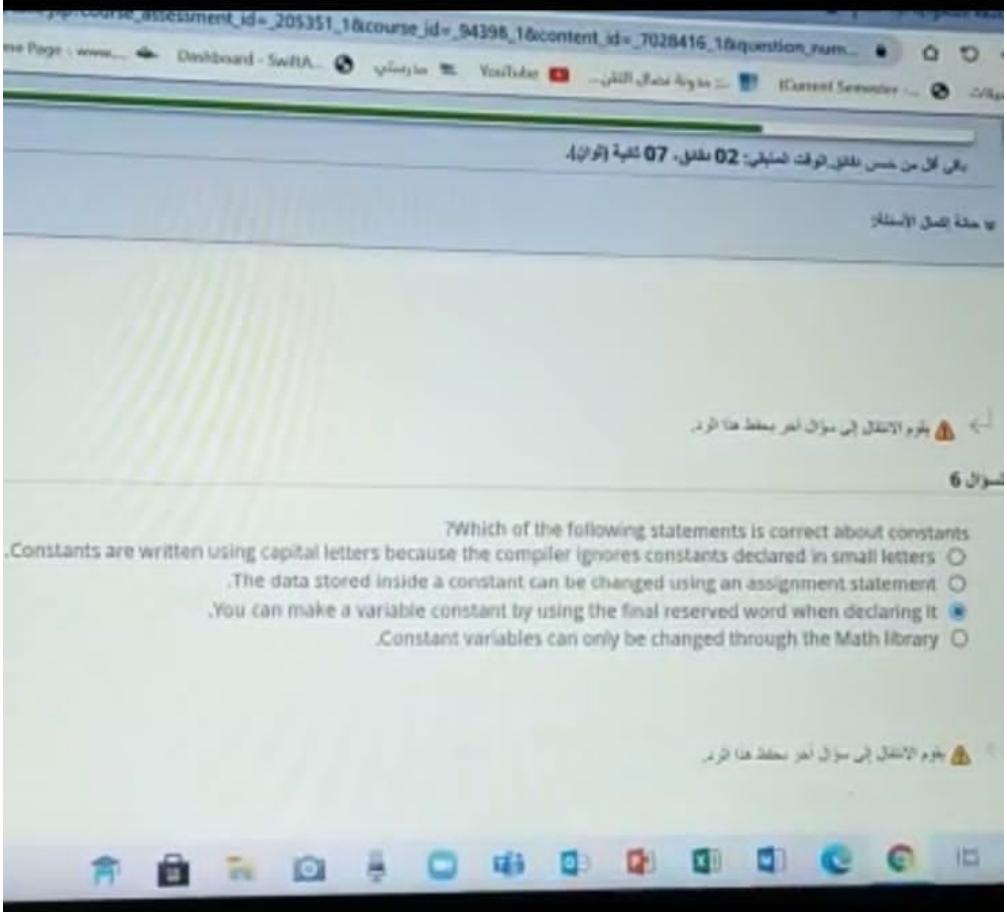

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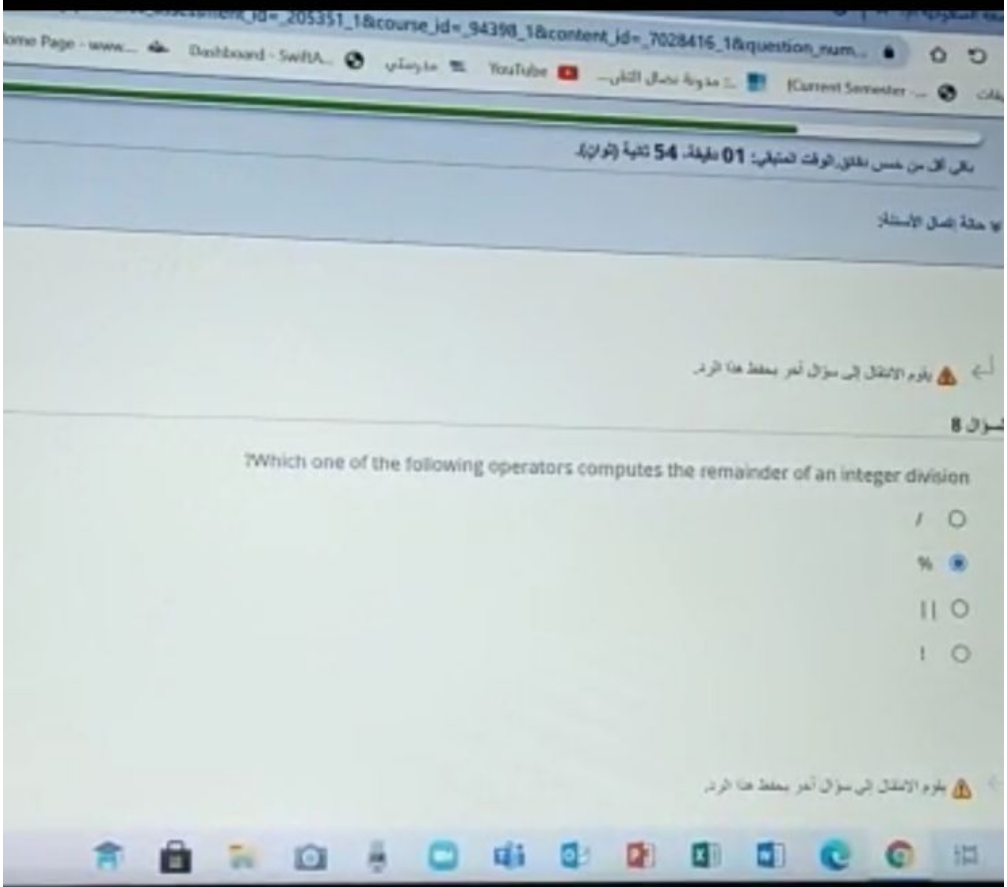

هادي الأسئلة اله جتني جبت كامل

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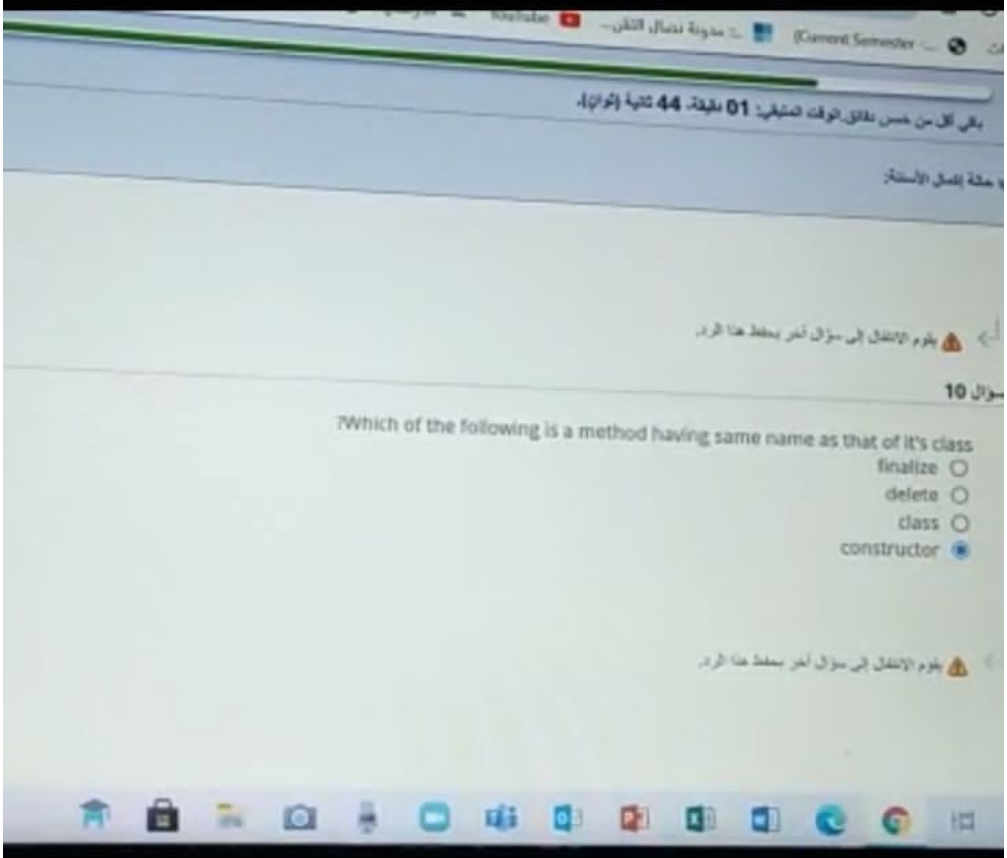

هادي الأسئلة اله جتني جبت كامل

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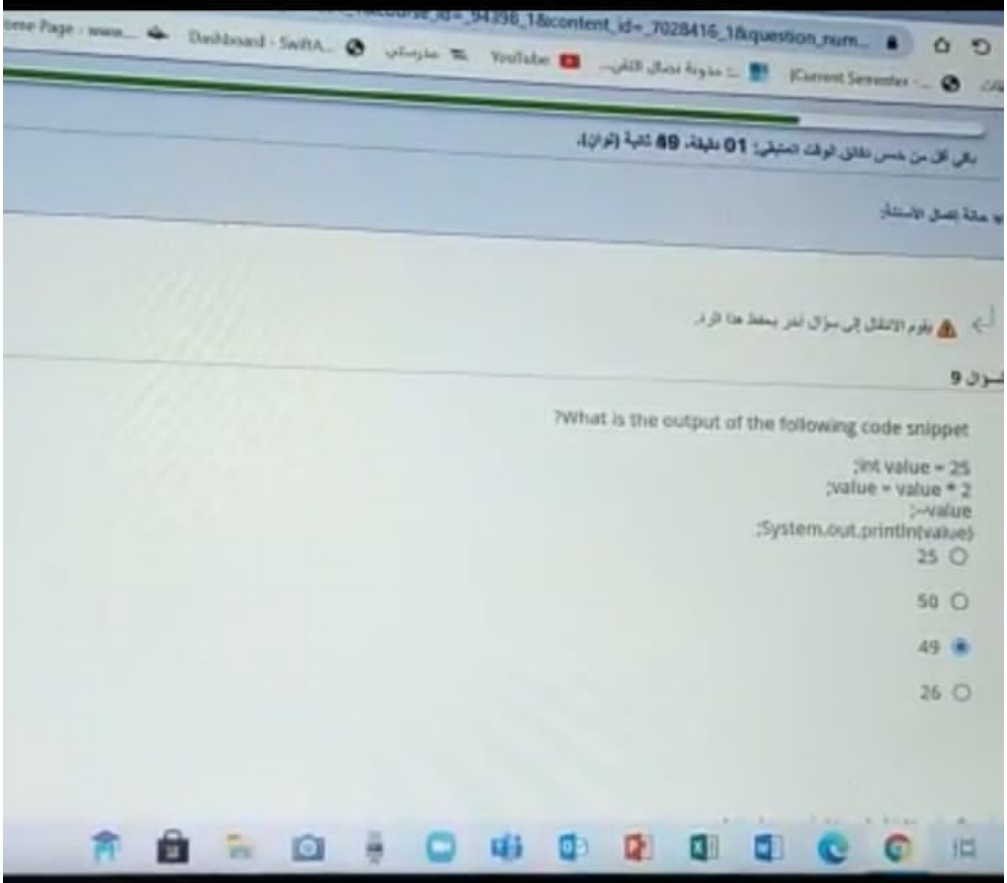
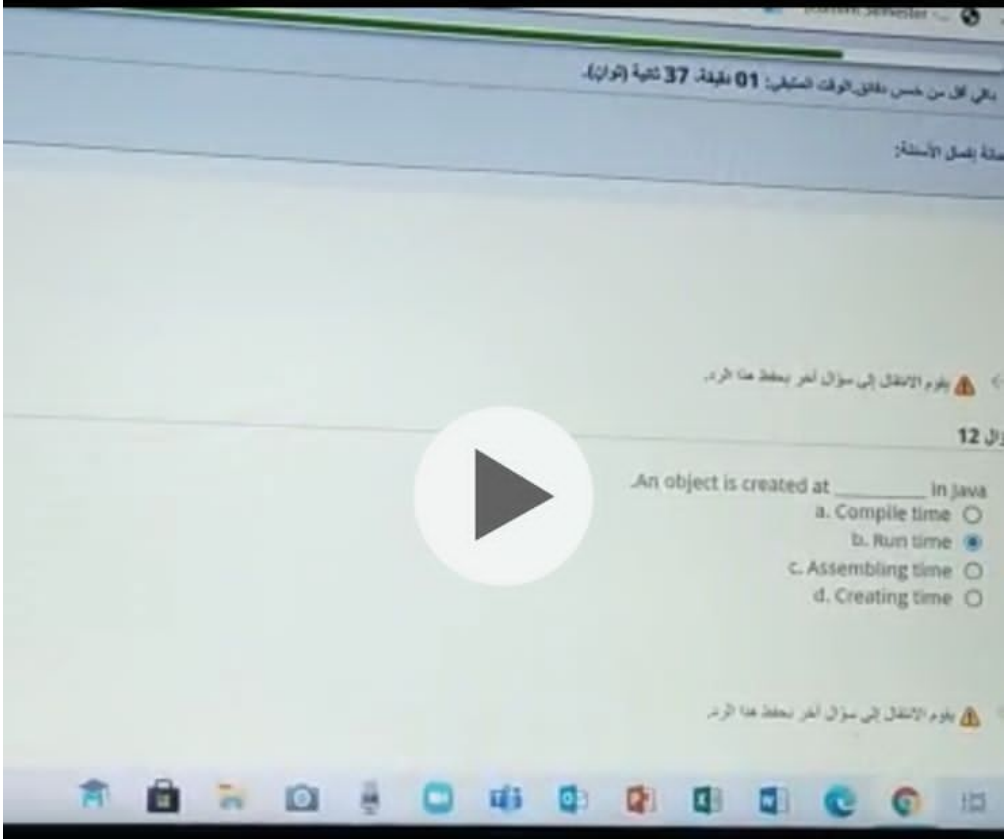


هادي الأسئلة اله جتني جبت كامل


يتبقى أقل من خمس دقائق الوقت المتبقي: 01 دقيقة، 37 ثانية (ثوان).
يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد.
12
An object is created at _____ in java.
a. Compile time
b. Run time
c. Assembling time
d. Creating time
يقوم الانتقال إلى سؤال آخر بحفظ هذا الرد.

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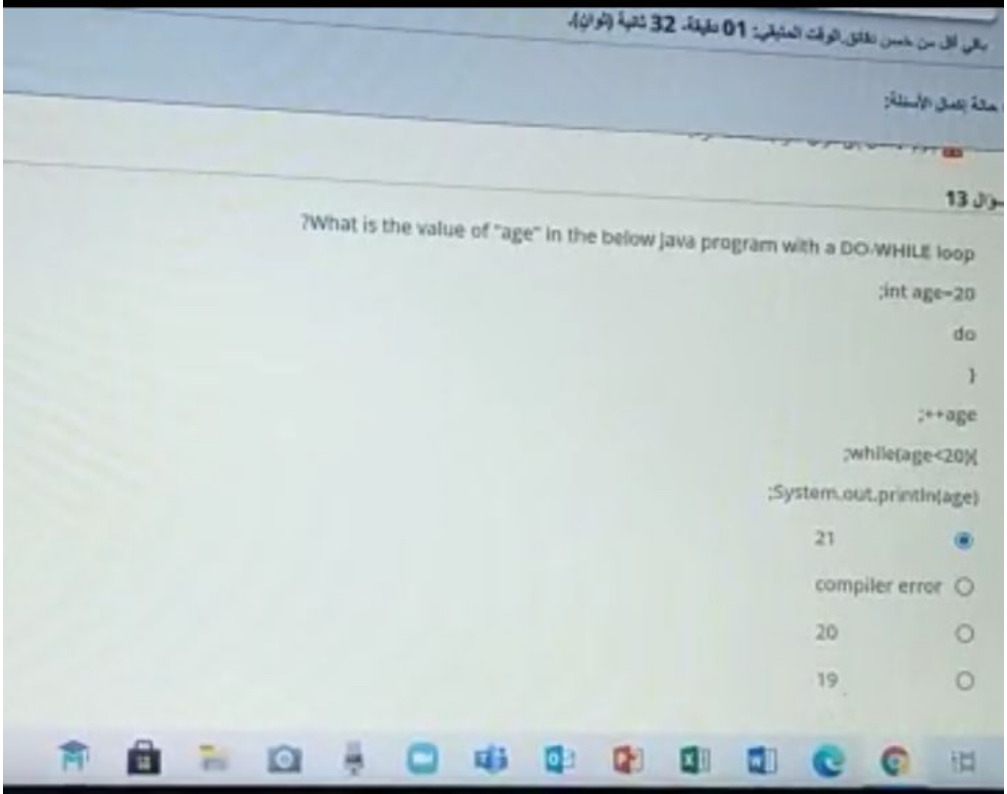

هادي الأسئلة اله جتني جبت كامل

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Take Test: Quiz-OOP-T1-2021-2022

Your answers are saved automatically.

Remaining Time: **13 minutes, 49 seconds.**

Question Completion Status:

Question **2** of **15**

Moving to another question will save this response.

0.2 points Save Answer

Which one of the following is a correct method for defining and initializing an integer variable with name value?

- int value = 30;
- Int value = 30;
- int value = .30;
- Int value = .30;

Question **2** of **15**

Moving to another question will save this response.

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5G ١:٢٥

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Question 4

0.2 points Saved

What is the output of the following statement?

System.out.println("O\nO\nP");

- OOP
- O
  O
  P
- OnOnP
- O\nO\nP

Question 5

0.2 points Saved

Which of the following syntax used to create an object of Class in Java?

- a. Classname obj = new() Classname()
- b. Classname obj = new Classname;
- c. Classname obj = new Classname();
- d. classneme =new classname;

Question 6

0.2 points Save Answer

_____is an informal language that helps you develop algorithms without having to worry about the strict details of Java language syntax.

- a. Pseudocode
- b. Algorithm
- c. Blocks
- d. procedure

٩:٤٥

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Question 2

0.2 points Save Answer

What is true about do statement?

- a. do statement executes the code of a loop at least once
- b. do statement does not get executed if the condition is not matched in the first iteration
- c. do statement checks the condition at the beginning of the loop
- d. do statement executes the code more than once always

Question 3

0.2 points Saved

What is the output of the following code snippet?

```
int i = 0;
for(i = 0 ; i < 5; i++){
}
System.out.println(i);
```

- 5
- 4
- 0
- Compilation Error

Question 4

0.2 points Saved

What is the output of the following statement?

```
System.out.println("O\nO\nP");
```

- OOP
- O
  O
  P
- OnOnP
- O\nO\nP

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Question 10

0.2 points Saved

What is the output of the following code snippet?

```
int a = 2*4 + 4 /6 ;
int b = 21 - 8 + a % 5 * 1;
if(a < b)
 {
   System.out.println("A is less than B");
 }
else if(a == b)
 {
    System.out.println("A is equal to B");
 }

else {
    System.out.println("A is greater than B");
 }
```

- (●) A is less than B
- ( ) Compile error
- ( ) A is equal to B
- ( ) B is less than A

Question 11

0.2 points Save Answer

What is the output of the following code snippet?

```
int value = 3;
value++;
System.out.println(value);
```

- ( ) No output due to syntax error
- ( ) 2
- ( ) 3
- (●) 4

Question 12

0.2 points Save Answer

The default constructor initializes the _____

- ( ) classes
- ( ) methods
- ( ) variables in the main method
- (●) instance variables

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Question 13

0.2 points Saved

Which of the following options declares a float variable?

- Float age;
- fit age;
- float age;
- age: float;

Question 14

0.2 points Save Answer

Which of the following is a method having same name as that of it's class?

- finalize
- delete
- class
- constructor

Question 15

0.2 points Save Answer

What is the value of x= Math.pow(3, 2)?

- x=6.0
- x=9.0
- x=8.0
- x=5.0

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Moving to another question will save this response.

Question 2

Every class must have at least one _____.

- object
- method
- constructor
- main method

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Moving to another question will save this response.

Question 3

What is the return type of a method that does not return any value?

- Int
- float
- void
- double

Moving to another question will save this response.

Take Test: Quiz-OOP-T1-2021-2022

Question Completion Status:

Which of the following statements is correct about constants?

- Constants are written using capital letters because the compiler ignores constants declared in small letters.
- The data stored inside a constant can be changed using an assignment statement.
- You can make a variable constant by using the final reserved word when declaring it.
- Constant variables can only be changed through the Math library.

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Take Test: Quiz-OOP-T1-2021-2022

Question Completion Status:

Question 5

0.2 points Save Answer

What is the correct way to invoke methods on variables in Java that are strings?

- Methods can only be invoked on string constants, not on variables.
- For each method there is a special operator that must be used.
- There are no methods available in Java for string variables.
- Invoke them using the variable name and the dot (.) notation.

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Take Test: Quiz-OOP-T1-2021-2022

Question Completion Status:

Question **3** of **15**

⚠ Moving to another question will save this response.

0.2 points Save Answer

What is the output of the following code snippet?

```
int value = 3;
value++;
System.out.println(value);
```

- No output due to syntax error
- 2
- 3
- 4

Question **3** of **15**

⚠ Moving to another question will save this response.

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Take Test: Quiz-OOP-T1-2021-2022

Question Completion Status:

Take Test: Quiz-OOP-T1-2021-2022

Question Completion Status:

Which of the following statements is correct about constants?

- Constants are written using capital letters because the compiler ignores constants declared in small letters.
- The data stored inside a constant can be changed using an assignment statement.
- You can make a variable constant by using the final reserved word when declaring it.
- Constant variables can only be changed through the Math library.

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الجامعة السعودية الإلكترونية
SAUDI ELECTRONIC UNIVERSITY
2011-1432

College of Computing and Informatics

Object Oriented Programming

CS230

Assignment 2

Deadline: Day 5/12/2021 @ 23:59

[Total Mark for this Assignment is 5]

Student Details:

Name: ### **ID:** ###

CRN: ###

Instructions:

- You must submit two separate copies **(one Word file and one PDF file)** using the Assignment Template on Blackboard via the allocated folder. These files **must not be in compressed format**.
- It is your responsibility to check and make sure that you have uploaded both the correct files.
- Zero mark will be given if you try to bypass the SafeAssign (e.g. misspell words, remove spaces between words, hide characters, use different character sets, convert text into image or languages other than English or any kind of manipulation).
- Email submission will not be accepted.
- You are advised to make your work clear and well-presented. This includes filling your information on the cover page.
- You must use this template, failing which will result in zero mark.
- You MUST show all your work, and text must not be converted into an image, unless specified otherwise by the question.
- Late submission will result in ZERO mark.
- The work should be your own, copying from students or other resources will result in ZERO mark.
- Use **Times New Roman** font for all your answers.

على النص الذي ترغب في أن يظهر هنا.Heading 1خطأ! استخدم علامة التبويب "الصفحة الرئيسية" لتطبيق

Learning Outcome(s):

Develop a program based on specification using programming language elements including syntax, data types, conditional statement, control structures, procedures, arrays, objects and classes

Question One

1.5 Marks

Write a java program that:

a. Create an abstract class named Shape that contains three integers length, breadth, radius and an empty method named printArea().
b. Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape.
c. Each one of the classes contains only the method printArea() that read the requested values and prints the area of the given shape.
d. Provide a class Main that create a rectangle, a triangle and a cercle then print their respective areas.

Note: you should Include the screenshot of the program output as a part of your answer. Otherwise, zero marks will be awarded.

Learning Outcome(s):

Develop a program based on specification using programming language elements including syntax, data types, conditional statement, control structures, procedures, arrays, objects and classes

(***2 Marks***)

Question Two

Create a class called Invoice that a hardware store might use to represent an invoice for an item sold at the store.

a. An Invoice should include four information as instance variables: a part number (type String), a part description (type String), a quantity of the item being purchased (type int) and a price per item (double).
b. Your class should have a constructor that initializes the four instance variables. Provide a set and a get method for each instance variable.
c. In addition, provide a method named getInvoiceAmount that calculates the invoice amount (i.e., multiplies the quantity by the price per item), then returns the amount as a double value. If the quantity is not positive, it should be set to 0. If the price per item is not positive, it should be set to 0.0.
d. Write a tester class named InvoiceTest that demonstrates class Invoice's capabilities by creating two invoices then changing and printing their characteristics.

Note: you should Include the screenshot of the program output as a part of your answer. Otherwise, zero marks will be awarded.

على النص الذي ترغب في أن يظهر هنا.Heading 1خطأ! استخدم علامة التبويب "الصفحة الرئيسية" لتطبيق

Learning Outcome(s):

Explain the basic principles of programming, concept of language, and universal constructs of programming languages.

Develop a program based on specification using programming language elements including syntax, data types, conditional statement, control structures, procedures, arrays, objects and

Question Three

1.5 Marks

Write a complete Java program that do the following:

a. Read your student's ID number, store it in an array named myStudentNO and print it.
b. find the number of even and odd integers in myStudentNO array

Note: Your program output should look as shown below

```
 ----jGRASP exec: java Q1
enter your  Student's ID NO
1
2
3
4
5
6
7
8
9
Your student's NO is 123456789
Number of even numbers : 4
Number of odd numbers  : 5

 ----jGRASP: operation complete.
```

Note: you should Include the screenshot of the program output as a part of your answer and you should enter your student id number. Otherwise zero marks will be awarded.

uestion 4

Given the variable declaration `int x=20;` , the statement `x.println();`

- Prints the value stored in `x`.
- Gives an error because the name of the method invoked is not correct.
- Gives an error because the method invoked expects explicit parameters.
- Gives an error because the variable `x` is of a primitive type.

b

Moving to another question will save this response.

Question 6

Which one of the following statements is correct about the given code snippet?

```
int[] somearray = new int[6];
for (int i = 0; i < 6; i++)
{
  somearray[i] = i + 1;
}
```

- The for loop initializes all the elements of the array.
- The for loop initializes all the elements except the first element.
- The for loop initializes all the elements except the last element.
- The for loop initializes all the elements except the first and last elements.

A

Question 10

stringA.compareTo(stringB) > 0 means:

- stringA comes before stringB in the dictionary.
- stringA comes after stringB in the dictionary.
- stringA equals stringB.
- stringA different of stringB.

b

What is the value of n after the following nested loops?

```
int n = 0;
  for (int i = 1; i <= 5; i++)
     for ( int j = 0; j < i; j++)
          n = n + j;
```

- 25
- 6
- 10
- 20

D

Question 2

Automatic conversion between primitive types and the corresponding wrapper classes is called _____.

- auto unboxing
- auto boxing
- automatic wrapper class
- wrappering

b

Moving to another question will save this response.

What is the output of the following code:

```
int[] numbers = {1, 2, 3, 4, 5};
result = 0;
for(int number : numbers)
        result = result + number;
System.out.println(result/2);
```

- 8
- 8.5
- 7.5
- 7

D

...ing that a user enters 30 as the value for x, what is the output of the following code snippet?

```
int x;
Scanner in = new Scanner(System.in);
System.out.print("Enter a number: ");
x = in.nextInt();
if (x < 100)
{
  x = x + 5;
}
if (x < 500)
{
  x = x - 2;
}
if (x > 50)
{
  x++;
}
else
{
  x--;
}
System.out.println(x);
```

- 27
- 28
- 29
- 32

How many times will the following loop run?

```
int i = 0;
while (i < 10)
{
System.out.println(i);
i++;
}
```

- 0
- 8
- 9
- 10

D

Moving to another question will save this response.

Moving to another question will save this response.

Question 9

Considering the following code snippet, the value of x cannot be:

```
Random generator = new Random();
int x = 1 + generator.nextInt(3);
```

- 0
- 1
- 2
- 3

A

Question 2

What is the output of the following code snippet?

```
int[] array3 = { 11, 33, 54, 22, 91 };
System.out.print(array3[3]);
System.out.print(array3[4]);
```

- 5422
- 9122
- 2291
- 2254

Question 6

Assuming that a user enters 5 as the age, what is the output of the following code snippet?

```
int age = 0;
Scanner in = new Scanner(System.in);
System.out.print("Please enter your age: ");
age = in.nextInt();
if (age < 10)
{
  System.out.println("Kid");
}
if (age < 30)
{
  System.out.print("Young");
}
if (age < 70)
{
  System.out.print("Aged");
}
if (age < 100)
{
  System.out.print("Old");
}
```

- Kid
- Kid
  Young
- Kid
  YoungAged
- Kid
  YoungAgedOld

d

Question 5

What is the valid range of index values for an array of size 5?

- 0 to 5
- 1 to 4
- 1 to 5
- 0 to 4

d

Moving to another question will

If a program includes the following line of code `System.out.print("Enter value, Q to quit:` to enter a value or Q to quit; which of the following statements, can be used in order to read the user input?

- `String input = in.next();`
- `double input = in.nextDouble();`
- `int input = in.nextInt();`
- `String input = in.nextInt();`

A

How many times does the following code fragment display "Hi"?

```
int i = 10;
while (i > 1)
{
   System.out.println("Hi");
   i--;
}
```

- 9 times
- 10 times
- 11 times
- 12 times

A

Question 10

What is the output of the following code:

```
ArrayList<String> courses = new ArrayList<String>();
courses.add("cs140");
courses.add("cs141");
courses.remove(0);
System.out.println(courses.size());
```

- 4
- 3
- 1
- 0

Moving to another question will save this response.

Question 8

Which of the following is the correct syntax to generate a random number from 5 to 10, using an object named rand of class type Random?

- rand.nextInt(5)+5;
- rand.nextInt(10);
- rand.nextInt(10)+5;
- rand.nextInt(5,10);

A

[redacted]

How many times does the following for loop execute?

```
for (i = 3; i <= 7; i=i+3)
System.out.println (i+1 * i+1);
```

- 2
- 3
- 4
- 5

A

Question 7

Select the code that should be in the dotted space so that result would be equal -1.9 when the loop is terminated:

```
double[] reals = {1.0, 2.0, 1.9, -1.9};
double result = reals[0];
for(int i = 1; i < reals.length; i++)
        if(......)
            result = reals[i];
```

- ○ result < reals[i]
- ○ result > reals[i]
- ○ reals[i] > 0
- ○ 0 < result

b

Question 9

How many times the following for loop does executes.

```
for(i = 0; i <= 10; i++)
System.out.println(i * i);
```

- 10 times
- Forever
- 11 times
- 20 times

Question 5

In Java, there are _____ primitive types.

- 4
- 6
- 8
- 10

What is the output of the following code:

```
double[] dArray = new double[2];
ArrayList <Double>   arrayD = new ArrayList <Double> ();
dArray[0] = 1.5;
arrayD.add(1.5);
arrayD.add(0.0);
System.out.println(arrayD.get(0)+"   "+arrayD.get(1)+"   "+dArray[0]+"  "+dArray[1]);
```

- ○ null 1.5 1.5 0.0
- ○ 1.5 0.0 1.5 0.0
- ○ 1.5 0.0 0.0 1.5
- ○ null 1.5 0.0 1.5

b

What is the sentinel value in the following code snippet?

```
public static void main(String[] args)
{
        int grades = 0;
        int total = 0;
        int done = 1;
        while (grades != -1)
        {
                System.out.println("Enter a grade(-1 to stop): ");
                grades = reader.nextInt();
                total = total + grades;
        }
        System.out.println("total= " + total);
        }
```

- 0
- -1
- 1
- 11

b

Question 4

Which of the following create a two-dimensional array of type int with 5 columns and 4 rows?

- int [4][5] numbers = new int [][];
- int [5][4] numbers = new int [][];
- int [][] numbers = new int [4][5];
- int [] numbers = new int [5][4];

What elements will remain in array5 array list, after executing following statements?

```
array5.add("Ali");
array5.add("Bob");
array5.add("Cindy");
array5.set(2, "Baber");
array5.remove(1);
```

- array5{"Bob","Baber"}
- array5{"Candy","Bob"}
- array5{"Ali","Bob"}
- array5{"Ali","Baber"}

What is the index value of the last element in an array named as (students)?

- Students length
- Students length()-1
- students length +1
- students length -1

D

Moving to another question will save this response.

Moving to another question will save this response.

Question 10

- What is the value of n using the following Java code?
  Random generator = new Random();

```
int n = generator.nextInt(5);
```

- 5
- 0 < n <= 5
- 0 <= n <5
- 0 <= n <= 5

C

A while statement executes.

- a block of code repeatedly
- a single line
- an empty loop
- a test

A

Status	Completed
Attempt Score	5 out of 6 points
Time Elapsed	16 minutes out of 20 minutes

الاسئلة الي عليها علامة بالاصفر ماني متاكد منها حاول تلقى جوابها قبل تدخل الكويز

Question 1

_____ is used to find and fix bugs in the Java programs

- A. JVM
- B. Java Debugger
- C. JRE
- D. JDK

Question 2

_____ methods have the same name as its class and have no explicit return type .

- A. main
- B. get
- C. set
- D. Constructor

Question 3

What will be the output of the following Java code?

```
class box
{
    int width;
    int height;
    int length;

}

class main{
    public static void main(String args[])
 {
        box obj = new box();

        obj.width = 10;
        obj.height = 2;
        obj.length = 10;
        int y = obj.width * obj.height * obj.length;
        System.out.print(y);
 }
      }
```

- A. 100
- B. 12
- C. 200
- D. 400

Question 4

What is output of this statement?

System. out. println(1 / 0);

- A. 1
- B. Compile time error
- C. 1 / 0
- D. Run time error

Question 5

What does CPU stand for?

- A. Central Programming Unit
- B. Computer Programming Unit
- C. Central Processing Unit
- D. Computer Processing Unit

Moving to another question will save this response.

Question 6

What is the correct syntax to create an object from the class C ?

- A. C o = new Object [];
- B. C o = new C ();
- C. o C = new C ();
- D. C o = new C [];

⚠ Moving to another question will save this response.

Question 7

What is the extension of compiled java classes?

- A. .txt
- B. .class
- C. .java
- D. .js

Question 8

The output of the following code is:

```
int x = 5;
int y = 3;
System.out.println(x <= y);
```

- A. 3
- B. 5
- C. true
- D. false

Question 9

The method parameters are copied into the parameter variables when a method starts is called:

- A. Call by method
- B. Call by reference
- C. Call by value
- D. Call by parameter

Question 10

Java have the collection of classes with a related purpose is called

- A. JVM
- B. interface
- C. package
- D. Container

Question 11

The following code contains _____:

```
int s=21;
int ss=22;
println("s=21");
```

- A. Syntax error
- B. math error
- C. Logic error
- D. simulation error

Moving to another question will save this response.

Question 12

_____ translates high-level descriptions into machine code.

- A. debugger
- B. compiler
- C. assembler
- D. linker

Question 13

_____ is a template for creating different objects

- (●) A. A class
- ( ) B. Interface
- ( ) C. Method
- ( ) D. An Array

Question 14

The keyword used to create a new object in Java is _____.

- (●) A. new
- ( ) B. create
- ( ) C. class
- ( ) D. java

Question 15

if x=3, y=5, and z=10, what will be the result of the expression

++z + y - y + z + x++

- ( ) A. 20
- ( ) B. 23
- (●) C. 24
- ( ) D. 25

Question 16

What is the return type of a method that does not return any value?

- ( ) A. double
- ( ) B. int
- (●) C. void
- ( ) D. float

Question 17

An object is created at _____ in Java.

- A. Creating time
- B. Run time
- C. Assembling time
- D. Compile time

Question 18

The value of the variable myNum after running the following snipped code is:

```
int myNum = 15;
myNum = 35;
myNum++;
myNum-=20;
myNum--;

System.out.println(myNum);
```

- A. 35
- B. 20
- C. 0
- D. 15

Question 19

What will be the output of the following Java program?

```
class Output
{
    public static void main(String args[])
    {
        int arr[] = {1, 2, 3, 4, 5};
        for ( int i = 0; i < arr.length - 2; ++i)
            System.out.print(arr[i] + " ");
    }
}
```

- A. 1 2 3 4
- B. 1 2
- C. 1 2 3 4 5
- D. 1 2 3

⚠ Moving to another question will save this response.

Question 20

Identify the error, if any, in the following `if` statement:

```
if( true )
    System.out.println();
```

- A. A semicolon is missing in the first line.
- B. There is no mistake in this statement.
- C. The println() method must have input parameters.
- D. The body of the if statement must be surrounded by curly braces.

Question 21

Every Java program has at least _____user-defined class.

- A. Three
- B. Two
- C. Four
- D. One

Question 22

Identify the correct statement for defining an integer array named `numarray` of 10 elements.

- A. int[10] numarray;
- B. int numarray[10];
- C. int[] numarray = new int[10];
- D. int[] numarray = new int[9];

Question 23

Which package contains the Scanner class?

- ○ A. java.awt package
- ○ B. java.lang package
- ○ C. java.io package
- ◉ D. java.util package

Question 24

Which variable type would you use for defining your name?

- ○ A. double
- ◉ B. String
- ○ C. char
- ○ D. int

Question 1

0.2 points Save Answer

What is the output of the following statement?

```
System.out.printf("Hello %s!%n", "World");
```

- ○ Hello !World
- ○ Hello %s!%n", "World
- ○ Hello s!n World
- ☑ Hello World!

Question 2

0.2 points Save Answer

What is true about do statement?

- a. do statement executes the code of a loop at least once
- b. do statement does not get executed if the condition is not matched in the first iteration
- c. do statement checks the condition at the beginning of the loop
- d. do statement executes the code more than once always

Question 3

0.2 points Saved

What is the output of the following code snippet?

```
int i = 0;
for(i = 0 ; i < 5; i++){
}
System.out.println(i);
```

- 5
- 4
- 0
- Compilation Error

Question 4

0.2 points Saved

What is the output of the following statement?

System.out.println("O\nO\nP");

- OOP
- O
  O
  P
- OnOnP
- O\nO\nP

Question 5

0.2 points Saved

Which of the following syntax used to create an object of Class in Java?

- a. Classname obj = new() Classname()
- b. Classname obj = new Classname;
- c. Classname obj = new Classname();
- d. classneme =new classname;

Question 6

0.2 points Save Answer

_____is an informal language that helps you develop algorithms without having to worry about the strict details of Java language syntax.

- a. Pseudocode
- b. Algorithm
- c. Blocks
- d. procedure

Question 7

0.2 points Saved

When you compile Hello.java file, the _____ produces _____ file.

- a. Compiler, Hello.exe
- b. Compiler, Hello.class
- c. Debugger, Hello.exe
- d. Interpreter, Hello.exe

Question 8

0.2 points Save Answer

_____ is a logical unit of the computer that performs calculations.

- a. Arithmetic logic unit
- b. RAM
- c. ROM
- d. Hard Disk

Question 9

0.2 points Save Answer

What is the output of the following code snippet?

```
    int[] array = {5,6,7,8};
for(int i=0; i< array.length;i++)
    array[i]= array[i]* 2;

for( int e : array)
  System.out.print(" "+e);
```

- ○ 5 6 7 8
- ○ Compile error
- ○ 10 12 14 16 5 6 7 8
- ✔ 10 12 14 16

Question 10

0.2 points Saved

What is the output of the following code snippet?

```
int a = 2*4 + 4 /6  ;
int b = 21 - 8 + a % 5 * 1;
 if(a < b)
  {
   System.out.println("A is less than B");
  }
 else if(a == b)
 {
    System.out.println("A is equal to B");
 }

 else {
    System.out.println("A is greater than B");
  }
```

- [x] A is less than B
- [ ] Compile error
- [ ] A is equal to B
- [ ] B is less than A

Question 11

0.2 points Save Answer

What is the output of the following code snippet?

```
int value = 3;
value++;
System.out.println(value);
```

- No output due to syntax error
- 2
- 3
- 4

Question 12

0.2 points Save Answer

The default constructor initializes the _____

- classes
- methods
- variables in the main method
- instance variables

Question 13

0.2 points Saved

Which of the following options declares a float variable?

- Float age;
- flt age;
- float age;
- age: float;

Question 14

0.2 points Save Answer

Which of the following is a method having same name as that of it's class?

- finalize
- delete
- class
- constructor

Question 15

0.2 points Save Answer

What is the value of x= Math.pow(3, 2)?

- x=6.0
- x=9.0
- x=8.0
- x=5.0

User	
Course	(Current Semester - الفصل الحالي)CS-230: Object Oriented Programming 10485-Riyadh-Males
Test	Quiz-OOP-T1-2021-2022
Started	11/22/21 11:00 AM
Submitted	11/22/21 11:12 AM
Due Date	11/27/21 11:59 PM
Status	Completed
	Sensei Nasser
Time Elapsed	12 minutes out of 15 minutes

3 out of 3

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Java provides a class with name Class in **java. lang package**. Instances of the class Class represent classes and interfaces in a running Java application. The primitive Java types (boolean, byte, char, short, int, long, float, and double), and the keyword void are also represented as Class objects. Dhu'l-Q. 18, 1442 AH

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